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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/592,003	09/07/2006	Kouji Kawamura	1033318-00035	6773
	7590 01/15/200 INGERSOLL & ROO	EXAMINER		
POST OFFICE	BOX 1404	MUSLEH, MOHAMAD A		
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			2832	
			NOTIFICATION DATE	DELIVERY MODE
			01/15/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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ADIPFDD@bipc.com debra.hawkins@bipc.com

		Application No.	Applicant(s)		
Office Action Summary		10/592,003	KAWAMURA ET AL.		
		Examiner	Art Unit		
•		Mohamad A. Musleh	2832		
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address		
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from 1, cause the application to become AB ANDONE	N. Nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status			·		
•	Responsive to communication(s) filed on <u>07 Sec</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims		•		
5) □ 6) ⊠ 7) □ 8) □ Applicati 9) □ 10) ⊠	Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-8 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on 07 September 2006 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	r election requirement. r. are: a)⊠ accepted or b)□ object drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) Notice 3) Information	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>09/07/2006</u> .	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over leitl et al. US 7,135,953 B2 [leitl] in view of Savage et al. US 4,106,482 A [Savage].
- 2. Regarding claims 1, 3 and 8, at [figs. 6-13] leitl teaches a thermal trip device [1] in which a bimetal [3/4] is heated by over current and performs trip operation of a circuit by curvature of the heated bimetal [abstract]. But leitl does not teach at least one part of the surface of the bimetal is made to be black. Savage teaches that it is known to have a surface with black part, as set forth at [col. 1, lines 62-63]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify leitl's teachings in order to have a black part as taught by Savage to maximize absorption of heat radiation as disclosed at [col. 1, lines 62-63].
- 3. Regarding claims 2 and 4, at least one part of the surface of the bimetal is made to be matte black [at col. 1, lines 62-63, Savage teaches that it is known to have a matte black surface].
- 4. Regarding claims 5 and 6, at [fig. 4] leitl teaches the temperature measurement part of the bimetal is provided with a bending part [4] bent substantially perpendicular to longitudinal

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direction, and the surface of the bending part is made to be black or matte black [see claim 1's rejection].

Regarding claim 7, see claims 1 and 6 rejection. 5.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the notice of references cited (PTO-892). Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohamad A. Musleh whose telephone number is (571) 272-9086. The examiner can normally be reached on M-F (7:30-5:00 Est. Time) 1st Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MM

Mohamad A Musleh

Examiner

Ar<u>t</u> Unit 2832

ELVIN ENAD AMERICAN SUPERVISORY PATENT EXAMINER 07 JON08